

1. A lighting apparatus for emitting white light comprising:
 - a semiconductor light source emitting radiation at from about 250 nm to about 500 nm; and
 - a phosphor composition radiationally coupled to the light source, the phosphor composition comprising $(\text{Ba}, \text{Sr}, \text{Ca})\text{SiO}_4:\text{Eu}$.
2. The lighting apparatus of claim 1, wherein the light source is an LED.
3. The lighting apparatus of claim 2, wherein the LED comprises a nitride compound semiconductor represented by the formula $\text{In}_i\text{Ga}_j\text{Al}_k\text{N}$, where $0 \leq i$; $0 \leq j$, $0 \leq k$, and $i + j + k = 1$.
4. The lighting apparatus of claim 1, wherein the light source is an organic emissive structure.
5. The lighting apparatus of claim 1, wherein the phosphor composition is coated on the surface of the light source.
6. The lighting apparatus of claim 1, further comprising an encapsulant surrounding the light source and the phosphor composition.
7. The lighting apparatus of claim 1, wherein the phosphor composition is dispersed in the encapsulant.
8. The lighting apparatus of claim 1, further comprising a reflector cup.
9. The lighting apparatus of claim 1, wherein said phosphor composition comprises $(\text{Sr}_{0.95}\text{Ba}_{0.025}\text{Eu}_{0.025})_2\text{SiO}_4$.
10. The lighting apparatus of claim 1, wherein said phosphor composition comprises $(\text{Sr}_{0.58}\text{Ca}_{0.36}\text{Eu}_{0.06})_2\text{SiO}_4$.

11. The lighting apparatus of claim 10, wherein said apparatus has a color point with a ccx value of 0.5286 and a ccy value of 0.4604.

12. The lighting apparatus of claim 1, wherein said phosphor composition further comprises one or more additional phosphor.

13. The lighting apparatus of claim 12, wherein said one or more additional phosphors are selected from the group consisting of
 $(Ba, Sr, Ca)_5(PO_4)_3(Cl, F, Br, OH):Eu^{2+}, Mn^{2+}, Sb^{3+}$;
 $(Ba, Sr, Ca)MgAl_{10}O_{17}:Eu^{2+}, Mn^{2+}$; $(Ba, Sr, Ca)BPO_5:Eu^{2+}, Mn^{2+}$;
 $(Sr, Ca)_{10}(PO_4)_6 * n B_2 O_3: Eu^{2+}$; $2 SrO * 0.84 P_2 O_5 * 0.16 B_2 O_3: Eu^{2+}$;
 $Sr_2 Si_3 O_8 * 2 SrCl_2: Eu^{2+}$; $Ba_3 MgSi_2 O_8: Eu^{2+}$; $Sr_4 Al_{14} O_{25}: Eu^{2+}$; $BaAl_8 O_{13}: Eu^{2+}$;
 $Sr_4 Al_{14} O_{25}: Eu^{2+}$; $BaAl_8 O_{13}: Eu^{2+}$; $2 SrO - 0.84 P_2 O_5 - 0.16 B_2 O_3: Eu^{2+}$;
 $(Ba, Sr, Ca)MgAl_{10}O_{17}: Eu^{2+}, Mn^{2+}$; $(Ba, Sr, Ca)_5(PO_4)_3(Cl, F, OH): Eu^{2+}, Mn^{2+}, Sb^{3+}$;
 $(Ba, Sr, Ca)MgAl_{10}O_{17}: Eu^{2+}, Mn^{2+}$; $(Ba, Sr, Ca)Al_2 O_4: Eu^{2+}$;
 $(Y, Gd, Lu, Sc, La)BO_3: Ce^{3+}, Tb^{3+}$; $Ca_8 Mg(SiO_4)_4 Cl_2: Eu^{2+}, Mn^{2+}$;
 $(Ba, Sr, Ca)_2(Mg, Zn)Si_2 O_7: Eu^{2+}$; $(Sr, Ca, Ba)(Al, Ga, In)_2 S_4: Eu^{2+}$;
 $(Y, Gd, Tb, La, Sm, Pr, Lu)_3(Al, Ga)_5 O_{12}: Ce^{3+}$; $(Ca, Sr)_8(Mg, Zn)(SiO_4)_4 Cl_2: Eu^{2+}, Mn^{2+}$; $Na_2 Gd_2 B_2 O_7: Ce^{3+}, Tb^{3+}$; $(Ba, Sr)_2(Ca, Mg, Zn)B_2 O_6: K, Ce, Tb$;
 $(Sr, Ca, Ba, Mg, Zn)_2 P_2 O_7: Eu^{2+}, Mn^{2+}$; $(Ca, Sr, Ba, Mg)_{10}(PO_4)_6(F, Cl, Br, OH): Eu^{2+}, Mn^{2+}$; $(Gd, Y, Lu, La)_2 O_3: Eu^{3+}, Bi^{3+}$; $(Gd, Y, Lu, La)_2 O_2 S: Eu^{3+}, Bi^{3+}$;
 $(Gd, Y, Lu, La)VO_4: Eu^{3+}, Bi^{3+}$; $(Ca, Sr)S: Eu^{2+}$; $Sr Y_2 S_4: Eu^{2+}$; $CaLa_2 S_4: Ce^{3+}$;
 $(Ca, Sr)S: Eu^{2+}$; $3.5MgO * 0.5MgF_2 * GeO_2: Mn^{4+}$; $(Ba, Sr, Ca)MgP_2 O_7: Eu^{2+}, Mn^{2+}$;
 $(Y, Lu)_2 WO_6: Eu^{3+}, Mo^{6+}$; $(Ba, Sr, Ca)_x Si_y N_z: Eu^{2+}$.

14. A lighting apparatus for emitting white light comprising:
 a UV light source emitting radiation at from about 250 to about 400 nm; and
 a phosphor composition radiationally coupled to the light source, the phosphor composition comprising $(Ba, Sr, Ca)SiO_4: Eu$, one or more garnet phosphors having the general formula $(Y, Gd, La, Lu, T, Pr, Sm)_3(Al, Ga, In)_5 O_{12}: Ce$ and a magnesium fluorogermanate phosphor having the formula $Mg_4 FGeO_6: Mn^{4+}$.

15. The lighting apparatus of claim 14, wherein the light source is a semiconductor LED.
16. The lighting apparatus of claim 14, wherein the LED comprises a nitride compound semiconductor represented by the formula $In_iGa_jAl_kN$, where $0 \leq i; 0 \leq j, 0 \leq K$, and $i + j + k = 1$.
17. The lighting apparatus of claim 14, wherein said light source is an organic emissive structure.
18. The lighting apparatus of claim 14, wherein the phosphor composition is coated on the surface of the light source.
19. The lighting apparatus of claim 14, further comprising an encapsulant surrounding the light source and the phosphor composition.
20. The lighting apparatus of claim 14, wherein the phosphor composition is dispersed in the encapsulant.
21. The lighting apparatus of claim 14, further comprising a reflector cup.
22. The lighting apparatus of claim 14, wherein said $(Ba,Sr,Ca)SiO_4:Eu$ phosphor comprises $(Sr_{0.95}Ba_{0.025}Eu_{0.025})_2SiO_4$.
23. The lighting apparatus of claim 14, wherein said phosphor composition comprises $(Sr_{0.58}Ca_{0.36}Eu_{0.06})_2SiO_4$.
24. The lighting apparatus of claim 23, wherein said apparatus has a color point with a ccx value of 0.5286 and a ccy value of 0.4604.
25. The lighting apparatus of claim 14, wherein said phosphor composition further comprises one or more additional phosphors.

26. The lighting apparatus of claim 25, wherein said one or more additional phosphors are selected from the group consisting of
 $(Ba, Sr, Ca)_5(PO_4)_3(Cl, F, Br, OH):Eu^{2+}, Mn^{2+}, Sb^{3+}$;
 $(Ba, Sr, Ca)MgAl_{10}O_{17}:Eu^{2+}, Mn^{2+}$; $(Ba, Sr, Ca)BPO_5:Eu^{2+}, Mn^{2+}$;
 $(Sr, Ca)_{10}(PO_4)_6 * n B_2O_3:Eu^{2+}$; $2SrO * 0.84P_2O_5 * 0.16B_2O_3:Eu^{2+}$;
 $Sr_2Si_3O_8 * 2SrCl_2:Eu^{2+}$; $Ba_3MgSi_2O_8:Eu^{2+}$; $Sr_4Al_{14}O_{25}:Eu^{2+}$; $BaAl_8O_{13}:Eu^{2+}$;
 $Sr_4Al_{14}O_{25}:Eu^{2+}$; $BaAl_8O_{13}:Eu^{2+}$; $2SrO - 0.84P_2O_{5-0.16}B_2O_3:Eu^{2+}$;
 $(Ba, Sr, Ca)MgAl_{10}O_{17}:Eu^{2+}, Mn^{2+}$; $(Ba, Sr, Ca)_5(PO_4)_3(Cl, F, OH):Eu^{2+}, Mn^{2+}, Sb^{3+}$;
 $(Ba, Sr, Ca)MgAl_{10}O_{17}:Eu^{2+}, Mn^{2+}$; $(Ba, Sr, Ca)Al_2O_4:Eu^{2+}$;
 $(Y, Gd, Lu, Sc, La)BO_3:Ce^{3+}, Tb^{3+}$; $Ca_8Mg(SiO_4)_4Cl_2:Eu^{2+}, Mn^{2+}$;
 $(Ba, Sr, Ca)_2(Mg, Zn)Si_2O_7:Eu^{2+}$; $(Sr, Ca, Ba)(Al, Ga, In)_2S_4:Eu^{2+}$;
 $(Y, Gd, Tb, La, Sm, Pr, Lu)_3(Al, Ga)_5O_{12}:Ce^{3+}$; $(Ca, Sr)_8(Mg, Zn)(SiO_4)_4Cl_2:Eu^{2+}, Mn^{2+}$;
 $Na_2Gd_2B_2O_7:Ce^{3+}, Tb^{3+}$; $(Ba, Sr)_2(Ca, Mg, Zn)B_2O_6:K, Ce, Tb$;
 $(Sr, Ca, Ba, Mg, Zn)_2P_2O_7:Eu^{2+}, Mn^{2+}$; $(Ca, Sr, Ba, Mg)_{10}(PO_4)_6(F, Cl, Br, OH):Eu^{2+}, Mn^{2+}$;
 $(Gd, Y, Lu, La)_2O_3:Eu^{3+}, Bi^{3+}$; $(Gd, Y, Lu, La)_2O_2S:Eu^{3+}, Bi^{3+}$;
 $(Gd, Y, Lu, La)VO_4:Eu^{3+}, Bi^{3+}$; $(Ca, Sr)S:Eu^{2+}$; $SrY_2S_4:Eu^{2+}$; $CaLa_2S_4:Ce^{3+}$;
 $(Ca, Sr)S:Eu^{2+}$; $3.5MgO * 0.5MgF_2 * GeO_2:Mn^{4+}$; $(Ba, Sr, Ca)MgP_2O_7:Eu^{2+}, Mn^{2+}$;
 $(Y, Lu)_2WO_6:Eu^{3+}, Mo^{6+}$; $(Ba, Sr, Ca)_xSi_yN_z:Eu^{2+}$.
27. A lighting apparatus for emitting white light comprising:
a semiconductor light source emitting radiation at from about 370 to about 500 nm; and
a phosphor composition radiationally coupled to the light source, the phosphor composition comprising $(Ba, Sr, Ca)SiO_4:Eu$, and one or more $(Sr, Mg, Ca, Ba, Zn)_2P_2O_7:Eu, Mn$; $(Ca, Sr, Ba, Mg)_5(PO_4)_3(Cl, F, OH):Eu, Mn$; $(Sr, Ba, Ca)MgAl_{10}O_{17}:Eu, Mn$; and $Mg_4FGeO_6:Mn^{4+}$.
28. The lighting apparatus of claim 27, wherein the light source is a semiconductor LED.
29. The lighting apparatus of claim 27, wherein the LED comprises a nitride compound semiconductor represented by the formula $In_iGa_jAl_kN$, where $0 \leq i$; $0 \leq j$, $0 \leq k$, and $i + j + k = 1$.

30. The lighting apparatus of claim 27, wherein said light source is an organic emissive structure.
31. The lighting apparatus of claim 27, wherein the phosphor composition is coated on the surface of the light source.
32. The lighting apparatus of claim 27, further comprising an encapsulant surrounding the light source and the phosphor composition.
33. The lighting apparatus of claim 27, wherein the phosphor composition is dispersed in the encapsulant.
34. The lighting apparatus of claim 27, further comprising a reflector cup.
35. The lighting apparatus of claim 27, wherein said $(\text{Ba},\text{Sr},\text{Ca})\text{SiO}_4:\text{Eu}$ phosphor comprises $(\text{Sr}_{0.95}\text{Ba}_{0.025}\text{Eu}_{0.025})_2\text{SiO}_4$.
36. The lighting apparatus of claim 27, wherein said phosphor composition comprises $(\text{Sr}_{0.58}\text{Ca}_{0.36}\text{Eu}_{0.06})_2\text{SiO}_4$.
37. The lighting apparatus of claim 36, wherein said apparatus has a color point with a ccx value of 0.5286 and a ccy value of 0.4604.
38. The lighting apparatus of claim 27, wherein said phosphor composition further comprises one or more additional phosphors.
39. The lighting apparatus of claim 38, wherein said one or more additional phosphors are selected from the group consisting of $(\text{Ba},\text{Sr},\text{Ca})_5(\text{PO}_4)_3(\text{Cl},\text{F},\text{Br},\text{OH}):\text{Eu}^{2+},\text{Mn}^{2+},\text{Sb}^{3+}$; $(\text{Ba},\text{Sr},\text{Ca})\text{MgAl}_{10}\text{O}_{17}:\text{Eu}^{2+},\text{Mn}^{2+}$; $(\text{Ba},\text{Sr},\text{Ca})\text{BPO}_5:\text{Eu}^{2+},\text{Mn}^{2+}$; $(\text{Sr},\text{Ca})_{10}(\text{PO}_4)_6 \cdot n\text{B}_2\text{O}_3:\text{Eu}^{2+}$; $2\text{SrO} \cdot 0.84\text{P}_2\text{O}_5 \cdot 0.16\text{B}_2\text{O}_3:\text{Eu}^{2+}$; $\text{Sr}_2\text{Si}_3\text{O}_{8.2}\text{SrCl}_2:\text{Eu}^{2+}$; $\text{Ba}_3\text{MgSi}_2\text{O}_8:\text{Eu}^{2+}$; $\text{Sr}_4\text{Al}_{14}\text{O}_{25}:\text{Eu}^{2+}$; $\text{BaAl}_8\text{O}_{13}:\text{Eu}^{2+}$; $\text{Sr}_4\text{Al}_{14}\text{O}_{25}:\text{Eu}^{2+}$; $\text{BaAl}_8\text{O}_{13}:\text{Eu}^{2+}$; $2\text{SrO} \cdot 0.84\text{P}_2\text{O}_{5-0.16}\text{B}_2\text{O}_3:\text{Eu}^{2+}$;

$(Ba, Sr, Ca)MgAl_{10}O_{17}: Eu^{2+}, Mn^{2+}$; $(Ba, Sr, Ca)_5(Po_4)_3(Cl, F, OH): Eu^{2+}, Mn^{2+}, Sb^{3+}$;
 $(Ba, Sr, Ca)MgAl_{10}O_{17}: Eu^{2+}, Mn^{2+}$; $(Ba, Sr, Ca)Al_2O_4: Eu^{2+}$;
 $(Y, Gd, Lu, Sc, La)BO_3: Ce^{3+}, Tb^{3+}$; $Ca_8Mg(SiO_4)_4Cl_2: Eu^{2+}, Mn^{2+}$;
 $(Ba, Sr, Ca)_2(Mg, Zn)Si_2O_7: Eu^{2+}$; $(Sr, Ca, Ba)(Al, Ga, In)_2S_4: Eu^{2+}$;
 $(Y, Gd, Tb, La, Sm, Pr, Lu)_3(Al, Ga)_5O_{12}: Ce^{3+}$; $(Ca, Sr)_8(Mg, Zn)(SiO_4)_4Cl_2: Eu^{2+}, Mn^{2+}$;
 $Na_2Gd_2B_2O_7: Ce^{3+}, Tb^{3+}$; $(Ba, Sr)_2(Ca, Mg, Zn)B_2O_6 \cdot K, Ce, Tb$;
 $(Sr, Ca, Ba, Mg, Zn)_2P_2O_7: Eu^{2+}, Mn^{2+}$; $(Ca, Sr, Ba, Mg)_{10}(PO_4)_6(F, Cl, Br, OH): Eu^{2+}, Mn^{2+}$;
 $(Gd, Y, Lu, La)_2O_3: Eu^{3+}, Bi^{3+}$; $(Gd, Y, Lu, La)_2O_2S: Eu^{3+}, Bi^{3+}$;
 $(Gd, Y, Lu, La)VO_4: Eu^{3+}, Bi^{3+}$; $(Ca, Sr)S: Eu^{2+}$; $SrY_2S_4: Eu^{2+}$; $CaLa_2S_4: Ce^{3+}$;
 $(Ca, Sr)S: Eu^{2+}$; $3.5MgO \cdot 0.5MgF_2 \cdot GeO_2: Mn^{4+}$; $(Ba, Sr, Ca)MgP_2O_7: Eu^{2+}, Mn^{2+}$;
 $(Y, Lu)_2WO_6: Eu^{3+}, Mo^{6+}$; $(Ba, Sr, Ca)_xSi_yN_z: Eu^{2+}$.

- 40. A phosphor blend including $(Sr, Ba, Ca)_2SiO_4: Eu$ and at least one of $(Sr, Mg, Ca, Ba, Zn)_2P_2O_7: Eu, Mn$; $(Ca, Sr, Ba, Mg)_5(PO_4)_3(Cl, F, OH): Eu, Mn$; $(Sr, Ba, Ca)MgAl_{10}O_{17}: Eu, Mn$; $Mg_4FGeO_6: Mn^{4+}$; and one or more garnet phosphors having the general formula $(Y, Gd, La, Lu, T, Pr, Sm)_3(Al, Ga, In)_5O_{12}: Ce$.
- 41. The phosphor blend of claim 40 comprising $(Sr_{0.95}Ba_{0.025}Eu_{0.025})_2SiO_4$.
- 42. The phosphor blend of claim 40 comprising $(Sr_{0.58}Ca_{0.36}Eu_{0.06})_2SiO_4$.
- 43. The phosphor blend of claim 40, wherein said phosphor blend is capable of absorbing the radiation emitted by a light source emitting from 350-500 nm and emitting radiation that, when combined with said radiation from said light source, produces white light.